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FORM PTO-1300 (REV. 6-87)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER MUR-3490	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)					
INTERNATIONAL APPLICATION NO. PCT/GB91/01599		INTERNATIONAL FILING DATE (18.09.91) 18 September 1991		PRIORITY DATE CLAIMED (29.09.90) 29 September 1990	
TITLE OF INVENTION TRANSMISSION OF DATA IN BOREHOLES					
APPLICANT(S) FOR DO/EO/US SMITH, David Balfour					
Applicant herewith submits to the United States Designated/ Elected Office (DO/EO/US) the following items under 35 U.S.C. 371:					
1. <input checked="" type="checkbox"/> This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).					
2. <input checked="" type="checkbox"/> The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees as follows:					
CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
TOTAL CLAIMS		13 -20=	---	X\$22.00	\$ ---
INDEPENDENT CLAIMS		2 -3=	---	X\$74.00	---
MULTIPLE DEPENDENT CLAIM(S) (if applicable)				+\$230 .	---
BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(4)):					
<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) ..... \$640 .					
<input type="checkbox"/> No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445 (a)(2)) ..... \$710 .					
<input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... \$950 .					
<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2) to (4) ..... \$90 .					
<input checked="" type="checkbox"/> Filed with EPO or JPO Search Report ..... \$830 .					
Surcharge of \$130 for furnishing the National fee or oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.482(e)).					
TOTAL OF ABOVE CALCULATIONS					= \$830.00
Reduction by 1/2 for filing by small entity, if applicable. Affidavit must be filed also. (Note 37 CFR 1.9, 1.27, 1.28.) <i>will follow</i>					415.00
SUBTOTAL					+ 415.00
Processing fee of \$130 for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.482(f)).					
TOTAL NATIONAL FEE					\$ 415.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)).					+
TOTAL FEES ENCLOSED					\$ 415.00

- a. ☒ A check in the amount of \$415.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☐ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.

3. A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
- ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
  - ☒ has been transmitted by the International Bureau.
4. ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
5. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
- ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - ☐ have been transmitted by the International Bureau.
6. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
7. ☐ An oath or declaration of the inventor (35 U.S.C. 371(c)(4)).
8. ☐ A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Other document(s) or information included: \*

9. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98, with Form 1449 and 9 cited references & EPO Search Report
10. ☐ An assignment document for recording. Please mail the recorded assignment document to:
- ☐ the person whose signature, name & address appears at the bottom of this page.
  - ☐ the following:

\*X Copy of claims as amended under Article 34 (3 sheets)  
 included with copy of IPE Report

11. The above checked items are being transmitted

- ☐ before the 18th month publication.
- ☐ after publication and the Article 20 communication but before 20 months from the priority date.
- ☐ after 20 months but before 22 months (surcharge and/or processing fee included).
- ☐ after 22 months (surcharge and/or processing fee included).  
 Note: Petition to revive (37 CFR 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 22 months and no proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.
- ☒ by 30 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- ☐ after 30 months but before 32 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date (surcharge and/or processing fee included).
- ☐ after 32 months (surcharge and/or processing fee included).  
 Note: Petition to revive (37 CFR 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 32 months and a proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.

12. At the time of transmittal, the time limit for amending claims under Article 19

- ☒ has expired and no amendments were made.
- ☐ has not yet expired.

13. ☐ Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on \_\_\_\_\_, namely: \_\_\_\_\_  
 date

Allan Ratner

NAME RATNER & PRESTIA

P.O. Box 980

ADDRESS

Valley Forge, PA 19482

(215) 265-6666 (Phone) (215) 265-8935 (Fax)

19,717

SIGNATURE

REGISTRATION NUMBER

Express Mail Mailing Label No. IB657980763US Date of Deposit 29 March 1993

I hereby certify that this paper and fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.  
 Attention Box PCT - RO/US.

*B. G. Hurham*